

ABSTRACT OF THE DISCLOSURE

A device for operating a gas sensor having both at least one pump cell and a measuring cell is provided. A constant
5 current source is provided that makes available a pump current which acts upon an outer electrode of the pump cell. The constant current source provides at least two different amounts of the pump current and/or allows for an alternating operation having ON phases and OFF phases, the duration of
10 the ON phases/OFF phases being specifiabile. The device may be largely implemented in digital circuitry and adapted to different requirements.